

# OS Q1

The new dimension of scanning



 **ZEUTSCHEL**  
Cultural Heritage is our Passion



LED lighting system for reflection-free and shadow-free results



Camera system based on a CMOS sensor



Perfect interplay between high-quality technical components



Wide range of interchangeable imaging systems



Fulfills ISO 19264-1 Level A, Metamorfoze Full and FADGI 4 Star



Optical zoom

# OS Q1

## The new dimension of scanning

The OS Q Scanner generation is the result of new technological developments as well as our consistent work on technical innovations. It fulfills the highest demands under the headings of image quality, process efficiency and productivity.

The unique image quality of the OS Q is based on the perfect interplay of especially high-quality technical components. Thus, the image quality of the OS Q extends far beyond the requirements of all common digitalization standards, e.g. ISO 19264-1, Metamorfoze or FADGI.

The scanning system features a completely new and self-developed camera system based on a CMOS sensor. The camera features a high

dynamic range and is also capable of reproducing the finest gradations. The result: sharp, low-noise, high-contrast images which reflect even the finest details true to the original.

A special guided lighting of the LED lighting system with a constant angle enables the OS Q to reproduce even difficult originals free from reflection or shadowing. Reflections on shining surfaces or shadows in the book fold are optically corrected.

A CRI value of over 97 combined with optimally matched camera and lighting components enable excellent color rendering. The OS Q sets the reference mark for high scanning productivity.

The OS Q Scanner series achieves the highest efficiency in the scanning process through the perfect interplay with tried and tested Zeutschel imaging systems. Functions such as self-opening glass panes, sliding self-balancing book supporting plates and a scanning automatic system ensure the highest productivity levels.

The OS Q Overhead Scanner is designed as a flexible modular system. If the requirements and tasks increase, it can be expanded in a modular way.

Part of the standard equipment is an optical zoom for imaging smaller format documents.



**Compliant to**  
ISO 19264-1 Level A  
FADGI 4 Star  
Metamorfoze Full



OS Q1

LED lighting system for reflection-free and shadow-free results

Perfect interplay between high-quality technical components

Ergonomic work method for the highest quality demands



Completely new and self-developed camera system based on a CMOS sensor

Wide range of interchangeable imaging systems

## Product advantages

- RGB line sensor (3-channel, CMOS technology)
- Resolution of up to 600 ppi
- Fulfills ISO 19264-1 Level A, Metamorfoze Full and FADGI 4 Star
- Internal image processing with 96 bit
- Data output in 48 bit/24 bit color, 16 bit/8 bit grayscale and 1 bit b/w
- True RGB capture on each pixel (no color interpolation)
- Color rendering index (CRI) of LED lighting >97
- True parallel scanning
- Camera Link interface for fastest image transfer
- Optical zoom
- Variable lighting times and aperture settings
- Imaging systems for a wide range of formats
- OmniScan software with 48 bit data output
- Focused line lighting for glare-free operation
- Fastest scanning speed
- Perfect Book – 3D scan technology for perfect book fold correction
- Parallel scanning and saving process based on 64 bit technology and multi-threading
- Bi-directional scanning
- High productivity based on ROI scan function (limitation of the area to be scanned)
- Color rendering corresponds to the original
- No UV/IR radiation
- No reflections with high-shine originals
- Ergonomic work method with or without glass plate

Camera sensor	RGB line sensor (3-channel, CMOS technology)
Resolution	MeanMTF10 at 600 ppi: 9 LP/mm (with max. zoom-in up to 12 LP/mm)
Camera system	wear-free mechanical shutter, variable exposure time, electronically adjustable aperture; automatic white and black balance, variable depth of focus
Max. original size	>DIN A1, depending on book cradle
Max. book thickness	with book cradle OT 180 H 35 XL – 350 mm / 13.78" with book cradle OT 180 H 50 XL – 500 mm / 19.69"
Scan mode	96 bit color
Scanning speed (from start to end of scanning process) in A1	200 ppi – 3.5 sec. 400 ppi – 5.9 sec. 600 ppi – 7.6 sec.
Scanner interface	Camera Link
Zoom	A1 – A2

**Electrical data / safety**

Voltage	110–240 V
Frequency	50–60 Hz
Max. consumption	440 W

**Safety inspections / authorizations**

- Authorization in accordance with the IEC agreement (international authorization for the safety of IT products – includes EMC, electrical safety, device safety for CE, UL, ETL, CSA)
- LEDs tested in accordance with: IEC 62471:2006 "Photobiological safety of lamps and lamp systems"

**Dimensions**

Width	1370 mm / 53.93"
Depth (scanner including imaging system)	2200 mm / 78.74"
Height	2144 mm / 84.40"
Copyboard Systems	OT 180 H50 XL, OT 180 H35 XL, OT 180 H, OT 180, AT 1, OT 90 imaging systems, vacuum table
Accessories for imaging systems	Kit 90°, bookend 110° – 140°
Recommended working conditions	- Temperature range: 18–35°C - Relative air humidity, non-condensing: 80 %

**Operating system**

Operating system	Windows 10 (64 bit)
Scanning software	min. OmniScan 12.12 64 bit

Technical changes reserved



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